

CEIS101

Module 2

Circuit Simulation in Tinker cad

Rubric

| Activity | Requirement(s) | Points |
|------------------|--|--------|
| Building circuit | Screenshot of completed circuit in Tinkercad | 20 |
| Programming | Screenshot of code in Tinkercad | 20 |

IMPORTANT: You MUST include the title of your circuit design (shown under the Tinkercad logo) in the format of course number, session number, and your last name to receive credit.

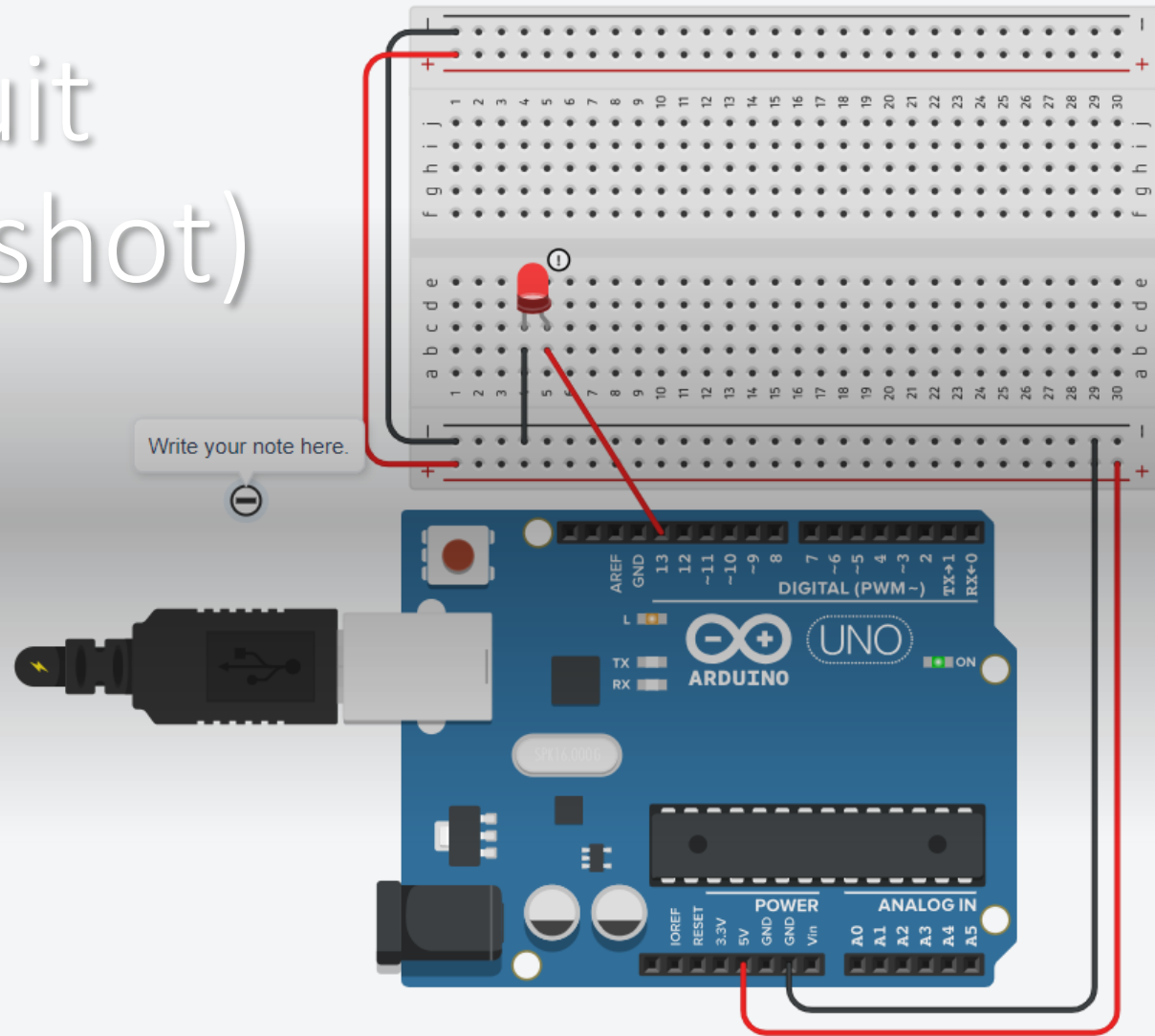


Simulator time: 00:00:04

Code

Stop Sim

Circuit (screenshot)

Components
All

Search

General



Resistor



Diode

Input



Pushbutton



Photoresistor



Flex Sensor



Ultrasonic

Code (screenshot)

The screenshot displays the TINKER CAD software interface, which is used for creating and simulating electronic projects. The top bar shows the user's name "CEIS101 JanFeb Willis" and a status "All changes saved". The interface is divided into several sections:

- Left Panel:** A breadboard circuit is shown. A red wire connects the positive terminal of a battery to pin 13 of an Arduino Uno R3. A black wire connects the negative terminal to pin 14. A red LED is connected to pin 13. A USB cable is plugged into the Arduino.
- Center Panel:** A "Blocks + Text" editor is open. It contains a sequence of blocks: "on start", "forever", "wait 1 secs", "repeat 10 times", "repeat while", "if then", "if then", and "else".
- Right Panel:** A C++ code editor is open, showing the following code:

```
1 // C++ code
2 //
3 void setup()
4 {
5   pinMode(13, OUTPUT);
6 }
7
8 void loop()
9 {
10  digitalWrite(13, HIGH);
11  delay(1000); // Wait for 1000 millisecond(s)
12  digitalWrite(13, LOW);
13  delay(1000); // Wait for 1000 millisecond(s)
14 }
```